

STIC Search Report

STIC Database Trendsing

TO: John Chu

Location: REM 9D51

Art Unit: 1752 February 28, 2006

Case Serial Number: 10/849186

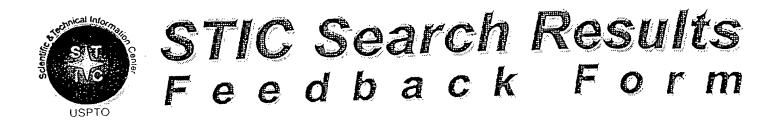
From: Usha Shrestha Location: EIC 1700 REMSEN 4B28

Phone: 571/272-3519

usha.shrestha@uspto.gov

Search Notes	
	-
	·





E(617/000)

Comments:

Questions about the scope or the results of the search? Contact the EIC searcher or contact:

Kathleen Fuller, EIC 1700 Team Leader 571/272-2505 REMSEN 4B28

Va	untary Results Feedback Ferm
A A	I am an examiner in Workgroup: Example: 1713 Relevant prior art found, search results used as follows:
	 102 rejection 103 rejection Cited as being of interest. Helped examiner better understand the invention. Helped examiner better understand the state of the art in their technology.
	Types of relevant prior art found: [Foreign Patent(s) [Non-Patent Literature (journal articles, conference proceedings, new product announcements etc.)
	 Relevant prior art not found: Results verified the lack of relevant prior art (helped determine patentability). Results were not useful in determining patentability or understanding the invention.

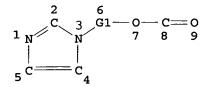
```
=> fil reg
FILE 'REGISTRY' ENTERED AT 09:54:43 ON 28 FEB 2006
=> d his
     FILE 'REGISTRY' ENTERED AT 09:42:17 ON 28 FEB 2006
                ACT CHU186A/A
               -----
L1
                STR
L2
         442695 SEA FILE=REGISTRY SSS FUL L1
               ACT CHU186/A
L3
                STR
L4
                STR
L5
   (
         442695) SEA FILE=REGISTRY SSS FUL L3
           2290 SEA FILE=REGISTRY SUB=L5 SSS FUL L4
L6
               ACT CHU197/A
               -----
L7
                STR
L8
                STR
L9 (
         442695) SEA FILE=REGISTRY SSS FUL L7
L10
          8549 SEA FILE=REGISTRY SUB=L9 SSS FUL L8
     FILE 'HCAPLUS' ENTERED AT 09:46:55 ON 28 FEB 2006
L11
             1 S US20040234884/PN
L12
             1 S US20050008968/PN
           924 S L6
L13
L14
          1426 S L10
             35 S L13 AND ?RESIST?
L15
             52 S L14 AND ?RESIST?
L16
                SEL L16 HIT RN 1-52
L17
            21 S L16 AND PHOTOG?/SC,SX
L18
            10 S L15 AND PHOTOG?/SC,SX
L19
            25 S L15 NOT L18
L20 -
            23 S L13 AND PHOTOG?/SC,SX
L21
            23 S L18 OR L20
L22
             1 S L21 AND L11
L23
            48 S L14 AND PHOTOG?/SC,SX
L24
            48 S L17 OR L23
L25
             1 S L24 AND L12
=> d que 121
                STR
```

VAR G1=AK/CB NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED **GRAPH ATTRIBUTES:**

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 6

STEREO ATTRIBUTES: NONE



VAR G1=AK/CB

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS

STEREO ATTRIBUTES: NONE

442695) SEA FILE=REGISTRY SSS FUL L3

2290 SEA FILE=REGISTRY SUB=L5 SSS FUL L4 L6 L13 924 SEA FILE=HCAPLUS ABB=ON PLU=ON L6

L15 35 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 AND ?RESIST?

10 SEA FILE=HCAPLUS ABB=ON PLU=ON L15 AND PHOTOG?/SC,SX L18

L20 23 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 AND PHOTOG?/SC,SX

L21 23 SEA FILE=HCAPLUS ABB=ON PLU=ON L18 OR L20

=> fil hcap

FILE 'HCAPLUS' ENTERED AT 09:54:57 ON 28 FEB 2006

=> d l21 1-23 ibib abs hitstr hitind

L21 ANSWER 1 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2005:1155389 HCAPLUS

DOCUMENT NUMBER:

143:413518

TITLE:

Nitrogen-containing organic compound,

chemically amplified resist

composition and patterning process

INVENTOR (S): Watanabe, Takeru; Hasegawa, Koji; Takemura,

Katsuya; Noda, Kazumi

PATENT ASSIGNEE(S): Shin-Etsu Chemical Co., Ltd., Japan

SOURCE:

U.S. Pat. Appl. Publ., 23 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE ------_ _ _ _ ----------

US 2005238993	A1	20051027	US	2005-110927		
05 2003230333		_ , , , , , , , , , , , , , , , , , , ,				2005
						0421
JP 2005306812	A2	20051104	JP	2004-128478		
						2004
						0423
PRIORITY APPLN. INFO.:			JP	2004-128478	Α	
						2004
						0423

AB Chemical amplified **photoresist** compns. comprising nitrogen-containing organic compds. having a 7-oxanorbornane-2-carboxylic ester structure have an excellent resolution and provide a precise pattern profile and are useful in microfabrication using electron beams or deep-UV light.

IT 867257-55-4P

(nitrogen-containing organic compound for chemical amplified resist composition)

RN 867257-55-4 HCAPLUS

CN 7-Oxabicyclo[2.2.1]heptane-2-carboxylic acid, 2-(1H-imidazol-1-yl)ethyl ester (9CI) (CA INDEX NAME)

IC ICM G03C001-492

INCL 430270100

CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST nitrogen org compd chem amplified photoresist compn patterning process

IT Photolithography

Photoresists

(nitrogen-containing organic compound for chemical amplified resist composition and patterning process)

IT 867257-46-3P 867257-47-4P 867257-49-6P 867257-51-0P 867257-52-1P 867257-54-3P

(nitrogen-containing organic compound for chemical amplified resist composition)

IT 111-95-5P 867257-45-2P 867257-48-5P 867257-50-9P 867257-53-2P **867257-55-4P** 867257-56-5P 867257-57-6P 867257-59-8P

(nitrogen-containing organic compound for chemical amplified resist composition)

IT 102-71-6, Triethanolamine, reactions 102-79-4, 105-59-9, Methyldiethanolamine Butyldiethanolamine 109-85-3, 2-Methoxyethylamine 120-07-0, Phenyldiethanolamine 122-96-3, 1,4-(Bis(2-hydroxyethyl)piperazine Triisopropanolamine 622-40-2, 2-Morpholinoethanol 1615-14-1, 1H-Imidazole-1-ethanol 3040-44-6, 2-Piperidinoethanol 3445-11-2, 2-(2-0xo-1pyrrolidinyl)ethanol 6340-03-0, 1H-Benzimidazole-1-ethanol 17209-72-2 21987-32-6 64897-90-1 867257-43-0 (proparation of nitrogen-containing organic compound for chemical amplified resist composition)

IT 79402-97-4P

(proparation of nitrogen-containing organic compound for chemical amplified resist composition)

IT 867257-44-1P

(proparation of nitrogen-containing organic compound for chemical amplified resist composition)

L21 ANSWER 2 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2005:1023521 HCAPLUS

DOCUMENT NUMBER:

143:336181

TITLE:

SOURCE:

Cellulose acylate films useful for

photographic and display applications and

image display devices using them

INVENTOR(S):

Kato, Eiichi

PATENT ASSIGNEE(S):

Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 68 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005255832	A2	20050922	JP 2004-68835	
				2004
				0311
PRIORITY APPLN. INFO.:			JP 2004-68835	
				2004
				0311

- AB The films with good balance of brittle resistance and hardness, are made from a composition containing cellulose acylate and ≥1 water-insol. block copolymer having a polymerized portion derived from radical-polymerizable hydrophobic monomer(s) and a polymerized portion derived from radical-polymerizable hydrophilic monomer(s).
- IT 865104-00-3P

(assumed monomers; cellulose acylate films useful for photog. and display applications and image display devices using them)

RN 865104-00-3 HCAPLUS

CN Cyclohexanecarboxylic acid, 1-[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,2-ethanediyl ester, polymer with cyclohexyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate, 2-(1H-imidazol-1-yl)ethyl 2-methyl-2-propenoate and 2-(phosphonooxy)ethyl 2-methyl-2-propenoate, block, graft (9CI) (CA INDEX NAME)

CM 1

CRN 865103-99-7 CMF C21 H32 O6

CM 2

CRN 62037-81-4 CMF C9 H12 N2 O2

$$\begin{picture}(0,0) \put(0,0){\line(0,0){0.5ex}} \put(0,0){\line(0,0){0.5ex}$$

CM 3

CRN 24599-21-1 CMF C6 H11 O6 P

$$\begin{array}{c|c} & \text{O} & \text{CH}_2 \\ || & || \\ \text{H}_2 \text{O}_3 \text{PO} - \text{CH}_2 - \text{CH}_2 - \text{O} - \text{C} - \text{C} - \text{Me} \end{array}$$

CM 4

CRN 3066-71-5 CMF C9 H14 O2

CM 5

CRN 868-77-9 CMF C6 H10 O3 $^{\mathrm{H_2C}}$ O $^{\parallel}$ $^{\parallel}$ $^{\parallel}$ Me-C-C-O-CH₂-CH₂-OH

IC ICM C08L001-12

ICS B29C041-24; C08J005-18; G02B005-30; B29K001-00; B29L007-00

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT 865103-96-4P 865103-98-6P 865104-00-3P

(assumed monomers; cellulose acylate films useful for photog. and display applications and image display devices using them)

L21 ANSWER 3 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2005:429276 HCAPLUS

DOCUMENT NUMBER:

142:490393

TITLE:

Nitrogen-containing organic compound,

resist composition and patterning

process

INVENTOR (S):

Watanabe, Takeru; Kinsho, Takeshi; Hasegawa,

Koji; Takemura, Katsuya; Noda, Kazumi;

Kobayashi, Katsuhiro

PATENT ASSIGNEE(S):

Shin-Etsu Chemical Co., Ltd., Japan

SOURCE:

U.S. Pat. Appl. Publ., 31 pp. CODEN: USXXCO

DOCUMENT TYPE:

LANGUAGE:

Patent

E: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005106500	A1	20050519	US 2004-984933	
				2004
JP 2005165295	A2	20050623	JP 2004-324619	1110
GF 2003103293	74	20030023	OF 2004-324019	2004
				1109
PRIORITY APPLN. INFO.:		•	JP 2003-384505 A	
				2003
				1114

- AB Chemical amplified **resist** compns. comprising nitrogen-containing organic compds. having an aromatic carboxylic acid ester structure have an excellent resolution and provide a precise pattern profile and are useful in microfabrication using electron beams or deep-UV light.
- IT 851706-04-2P

(nitrogen-containing organic compound, resist composition and patterning process)

RN 851706-04-2 HCAPLUS

CN 2-Naphthalenecarboxylic acid, 2-(1H-imidazol-1-yl)ethyl ester (9CI) (CA INDEX NAME)

```
- сн<sub>2</sub> - сн<sub>2</sub>-
```

ICM G03C001-492

INCL 430270100

74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST nitrogen org photoresist compn process

IT Photolithography

Photoresists

(nitrogen-containing organic compound, resist composition and patterning process)

IT 51-17-2, Benzimidazole 98-88-4, Benzoyl chloride 100-07-2, 4-Methoxybenzoyl chloride 102-71-6, Triethanolamine, reactions 527-69-5, 2-Furoyl chloride 622-40-2, 2-Morpholinoethanol 879-18-5, 1-Naphthoyl chloride 1615-14-1, 2-(Imidazol-1yl)ethanol 2243-83-6, 2-Naphthoyl chloride 2955-88-6, 2-(1-Pyrrolidinyl)ethanol 5452-06-2, 2-Chloroethyl 4-methoxybenzoate 6425-32-7, 3-Morpholinopropane-1,2-diol 14002-51-8, 4-Phenylbenzoyl chloride 17209-72-2 17213-57-9, 3,5-Dimethoxybenzoyl chloride 33941-15-0, 1-Aza-18-crown-6 98998-43-7 79402-97-4

> (nitrogen-containing organic compound, resist composition and patterning process)

22495-17-6P, 2-(1H-Benzimidazol-1-yl)ethyl benzoate IT 47750-79-8P 79690-87-2P 192817-77-9P, Ethyl 2-(1-pyrrolidinyl)benzoate 497057-34-8P 851705-95-8P 851705-97-0P 851705-99-2P 851706-00-8P 851706-01-9P 851706-02-0P 851706-03-1P 851706-04-2P 851706-05-3P 851706-06-4P 851706-07-5P (nitrogen-containing organic compound, resist composition and patterning process)

L21 ANSWER 4 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2004:1019601 HCAPLUS

DOCUMENT NUMBER:

142:13680

TITLE:

Basic compound, resist composition

and patterning process

INVENTOR (S):

Watanabe, Takeru; Kinsho, Takeshi; Hasegawa,

Applicat

Koji

PATENT ASSIGNEE(S):

Japan

SOURCE:

U.S. Pat. Appl. Publ., 38 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004234884	A 1	20041125	US 2004-849186	2004
JP 2004347736	A2	20041209	JP 2003-142813	0520 2003

PRIORITY APPLN. INFO.:

JP 2003-142813

0521

Α

2003 0521

OTHER SOURCE(S): MARPAT 142:13680

AB Resist compns. comprising basic compds. having an imidazole skeleton and a polar functional group have an excellent resolution and an excellent focus margin and are useful in microfabrication using electron beams or deep-UV light.

IT 798571-49-0P 798571-50-3P

(basic compound; resist composition and patterning process)

RN 798571-49-0 HCAPLUS

CN Acetic acid, methoxy-, 2-(1H-imidazol-1-yl)ethyl ester (9CI) (CA INDEX NAME)

RN 798571-50-3 HCAPLUS

CN Carbonic acid, 2-(1H-imidazol-1-yl)ethyl methyl ester (9CI) (CA INDEX NAME)

IT 95360-46-6 95360-61-5 798571-59-2

798571-60-5 798571-61-6 798571-62-7

798571-63-8 798571-64-9 798571-65-0

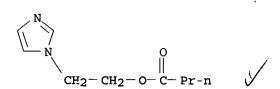
798571-66-1 798571-67-2 798571-68-3

798571-69-4 798571-73-0

(basic compound; resist composition and patterning process)

RN 95360-46-6 HCAPLUS

CN Butanoic acid, 2-(1H-imidazol-1-yl)ethyl ester (9CI) (CA INDEX NAME)



RN 95360-61-5 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(1H-imidazol-1-yl)ethyl ester
(9CI) (CA INDEX NAME)

RN 798571-59-2 HCAPLUS

CN 1H-Imidazole-1-ethanol, 2-methyl-, acetate (ester) (9CI) (CA INDEX NAME)

$$N$$
 Me CH_2-CH_2-OAc

RN 798571-60-5 HCAPLUS

CN 1H-Imidazole-1-ethanol, 2-phenyl-, acetate (ester) (9CI) (CA INDEX NAME)

RN 798571-61-6 HCAPLUS

CN 1H-Imidazole-1-ethanol, 4-phenyl-, acetate (ester) (9CI) (CA INDEX NAME)

Ph
$$\sim$$
 N \sim CH₂-CH₂-OAC

RN 798571-62-7 HCAPLUS

CN 1H-Imidazole-1-ethanol, 2,4,5-triphenyl-, acetate (ester) (9CI) (CA INDEX NAME)

RN 798571-63-8 HCAPLUS CN 1H-Imidazole-1-ethanol, α -methyl-, acetate (ester) (9CI) (CA INDEX NAME)

RN 798571-64-9 HCAPLUS CN 1H-Imidazole-1-ethanol, formate (ester) (9CI) (CA INDEX NAME)

RN 798571-65-0 HCAPLUS CN 1H-Imidazole-1-ethanol, propanoate (ester) (9CI) (CA INDEX NAME)

RN 798571-66-1 HCAPLUS
CN Cyclohexanecarboxylic acid, 2-(1H-imidazol-1-yl)ethyl ester (9CI)
(CA INDEX NAME)

RN 798571-67-2 HCAPLUS

CN 2-Furancarboxylic acid, tetrahydro-, 2-(1H-imidazol-1-yl)ethyl ester (9CI) (CA INDEX NAME)

RN 798571-68-3 HCAPLUS

CN Acetic acid, (2-methoxyethoxy)-, 2-(1H-imidazol-1-yl)ethyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c}
N & O \\
N & O \\
| | \\
CH_2 - CH_2 - O - C - CH_2 - O - CH_2 - CH_2 - OMe
\end{array}$$

RN 798571-69-4 HCAPLUS

CN Carbonic acid, 1,1-dimethylethyl 2-(1H-imidazol-1-yl)ethyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} N & O \\ N & O \\ \parallel & \parallel \\ CH_2-CH_2-O-C-OBu-t \end{array}$$

RN 798571-73-0 HCAPLUS

CN 1,2-Propanediol, 3-(1H-imidazol-1-yl)-, diacetate (ester) (9CI) (CA INDEX NAME)

```
OAc
      CH_2-CH-CH_2-OAC
IC
     ICM G03C001-76
INCL 430141000; 430270100
     74-5 (Radiation Chemistry, Photochemistry, and
     Photographic and Other Reprographic Processes)
ST
     basic compd resist compn patterning UV electron beam
TT
     1615-14-1P, 1H-Imidazole-1-ethanol
                                           34793-28-7P
                                                         51755-51-2P
     72338-57-9P
                   72338-63-7P, 1H-Imidazole-1-butanenitrile
     72459-38-2P
                   195304-84-8P 798571-49-0P
     798571-50-3P
                    798571-51-4P
        (basic compound; resist composition and patterning process)
TT
     3001-72-7, 1,5-Diazabicyclo[4.3.0]-5-nonene 6674-22-2,
     1,8-Diazabicyclo[5.4.0]-7-undecene
                                         20734-58-1,
     1,8-Bis(dimethylamino)naphthalene 95360-46-6
                  148458-64-4
     95360-61-5
                                 263389-34-0
                                               798571-52-5
     798571-53-6
                   798571-54-7
                                  798571-55-8
                                                798571-56-9
     798571-57-0
                   798571-58-1 798571-59-2
     798571-60-5 798571-61-6 798571-62-7
     798571-63-8 798571-64-9 798571-65-0
     798571-66-1 798571-67-2 798571-68-3
     798571-69-4
                   798571-71-8
                                  798571-72-9
                   798571-74-1
     798571-73-0
        (basic compound; resist composition and patterning process)
ΙT
     70587-55-2
        (crosslinker; resist composition and patterning process)
IT
     138529-81-4
                   142342-33-4
                                 144317-44-2
                                                161453-44-7
     266308-64-9
        (photoacid generator; resist composition and patterning
TΤ
     24979-74-6
                  123589-22-0
                                129674-22-2
                                               158593-28-3
                                                             279243-86-6
     326925-70-6
                   443796-30-3
                                  645393-08-4
                                                798570-36-2
     798570-38-4
                   798570-39-5
                                 798570-41-9
                                                798570-42-0
        (resin; resist composition and patterning process)
IT
     351181-99-2P
        (resist composition and patterning process)
IT
     117458-06-7
        (resist composition and patterning process)
L21 ANSWER 5 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:
                         2004:842278 HCAPLUS
DOCUMENT NUMBER:
                         141:351533
TITLE:
                         Magenta azo pigments for ink-jet inks
INVENTOR (S):
                         Suzuki, Rihoko; Sugimoto, Kenichi; Matsuzaki,
                         Yoriaki; Okuma, Tadashi; Oi, Ryu
                         Mitsui Chemicals Inc., Japan
PATENT ASSIGNEE(S):
SOURCE:
                         Jpn. Kokai Tokkyo Koho, 32 pp.
                         CODEN: JKXXAF
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         Japanese
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
```

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004285241	A2	20041014	JP 2003-79982	
				2003
				0324
PRIORITY APPLN. INFO.:			JP 2003-79982	
				2003
				0324

OTHER SOURCE(S):

MARPAT 141:351533

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT

AB Azo pigments I [A = O-containing linking group; R1, R2 = H, halo, (un)substituted alkyl or alkoxy, NHSO2Q1, NHCOQ2; Q1, Q2 = H, (un)substituted alkyl, alkoxy, aryl or aryloxy; R3, R4 = H, (un)substituted alkyl, aryl or alkenyl, where R3 and R4 may link with each other or with the adjacent aromatic ring to form a ring; n = 2, 3] having good solubility in organic solvents are prepared and used in ink-jet ink formulations. Thus, a magenta jet printing ink containing II 5, diethylene glycol monobutyl ether 10, and PhMe 85 parts showed no precipitation after 1-mo storage at 40° and gave images with high optical d. after water immersion or after 100-h accelerated weathering test.

IT 774224-72-5 774224-80-5

(magenta azo pigments for ink-jet inks with good storage stability and water and weather resistance)

RN 774224-72-5 HCAPLUS

CN 1H-Imidazole-4,5-dicarbonitrile, 1,1'-[1,6-hexanediylbis[oxy[2-(acetyloxy)-3,1-propanediyl]]]bis[2-[[4-(dibutylamino)-2-methoxyphenyl]azo]- (9CI) (CA INDEX NAME)

RN 774224-80-5 HCAPLUS

CN 1H-Imidazole-4,5-dicarbonitrile, 1,1'-[(1-methyl-1,2-ethanediyl)bis[oxy[2-(acetyloxy)-3,1-propanediyl]]]bis[2-[[4-

(dibutylamino) -2-methylphenyl]azo] - (9CI) (CA INDEX NAME)

PAGE 1-B

IC ICM C09B035-025

ICS B41J002-01; B41M005-00; C07D233-90; C09B035-34; C09B043-00; C09D011-00

CC 42-12 (Coatings, Inks, and Related Products)

Section cross-reference(s): 41

ST water weather resistance jet printing ink azo magenta

pigment; storage stability jet printing ink magenta azo pigment

IT Inks

(jet-printing, solvent-based; magenta azo pigments for ink-jet inks with good storage stability and water and weather resistance)

IT Inks

(jet-printing, water-thinned; magenta azo pigments for ink-jet inks with good storage stability and water and weather resistance)

IT 774224-69-0P 774224-70-3P

(magenta azo pigments for ink-jet inks with good storage stability and water and weather resistance)

IT 774224-71-4 **774224-72-5** 774224-73-6 774224-74-7

774224-75-8 774224-76-9 774224-77-0 774224-78-1

774224-79-2 774224-80-5 774224-81-6

(magenta azo pigments for ink-jet inks with good storage stability and water and weather resistance)

L21 ANSWER 6 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:798647 HCAPLUS

DOCUMENT NUMBER: 141:315977

TITLE: Magzenta azo pigments for ink-jet inks INVENTOR(S): Suzuki, Rihoko; Okuma, Tadashi; Sugimoto,

Kenichi; Oi, Ryu; Matsuzaki, Yoriaki

PATENT ASSIGNEE(S): SOURCE:

Mitsui Chemicals Inc., Japan Jpn. Kokai Tokkyo Koho, 27 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

LANGUAGE:

Patent Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004269619	A2	20040930	JP 2003-60125	
				2003
				0306
PRIORITY APPLN. INFO.:			JP 2003-60125	
			•	2003
				0306

OTHER SOURCE(S):

MARPAT 141:315977

GI

NHCOCH₃

NC

$$N = N$$
 $N = N$
 $N =$

Azo pigments I [R1-R3 = H, (un) substituted alkyl, aryl or alkenyl, AB where R1 and R3 may link together to form a ring; R4, R5 = H, halo, (un) substituted alkyl or alkoxy, etc.; R8, R9 = H, (un) substituted alkyl or aryl, where R8 and R9 may link with each

other or with the adjacent aromatic ring to form a ring; X = OH, (un) substituted alkoxy or aryloxy, etc.] having good solubility in organic solvents are prepared and used in ink-jet ink formulations. Thus, a magenta jet printing ink containing II 5, diethylene glycol monobutyl ether 10, and PhMe 85 parts showed no precipitation after 1-mo storage at 40° and gave images with high optical d. after water immersion or after 100-h accelerated weathering test. 766537-05-7P

(magenta azo pigments for ink-jet inks with good storage stability and water and weather resistance)

RN 766537-05-7 HCAPLUS

ΙT

CN Acetamide, N-[2-[[1-[2-(acetyloxy)-3-[(2-ethylhexyl)oxy]propyl]-4,5-dicyano-1H-imidazol-2-yl]azo]-5-(dioctylamino)phenyl]-(9CI)(CA INDEX NAME)

IT 766537-12-6 766537-14-8

(magenta azo pigments for ink-jet inks with good storage stability and water and weather resistance)

RN 766537-12-6 HCAPLUS

CN Propanoic acid, 2-methyl-, 2-[2-[[2-(acetylamino)-4-(dioctylamino)phenyl]azo]-4,5-dicyano-1H-imidazol-1-yl]-1-(butoxymethyl)ethyl ester (9CI) (CA INDEX NAME)

RN 766537-14-8 HCAPLUS

CN Hexanoic acid, 2-[2-[[2-(acetylamino)-4-(dioctylamino)phenyl]azo]-4,5-dicyano-1H-imidazol-1-yl]-1-[[(2-ethylhexyl)oxy]methyl]ethylester (9CI) (CA INDEX NAME)

```
Et O-C-(CH_2)_4-Me O-C-(CH
```

IC ICM C09B029-09

ICS B41J002-01; B41M005-00; C09B043-00; C09D011-00

CC 42-12 (Coatings, Inks, and Related Products)

Section cross-reference(s): 41

ST water weather resistance jet printing ink azo magenta

pigment; storage stability jet printing ink magenta azo pigment

IT Pigments, nonbiological

(azo; magenta azo pigments for ink-jet inks with good storage stability and water and weather resistance)

IT Inks

(jet-printing, solvent-based; magenta azo pigments for ink-jet inks with good storage stability and water and weather resistance)

IT Inks

(jet-printing, water-thinned; magenta azo pigments for ink-jet inks with good storage stability and water and weather resistance)

IT 766537-04-6P

(magenta azo pigments for ink-jet inks with good storage stability and water and weather resistance)

IT 766537-03-5P 766537-05-7P

(magenta azo pigments for ink-jet inks with good storage stability and water and weather resistance)

IT 766537-06-8 766537-07-9 766537-08-0 766537-09-1 766537-10-4 766537-11-5 **766537-12-6** 766537-13-7

766537-14-8 767332-43-4

(magenta azo pigments for ink-jet inks with good storage stability and water and weather resistance)

L21 ANSWER 7 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2002:268665 HCAPLUS

DOCUMENT NUMBER:

136:311211

TITLE:

SOURCE:

Azo dyes and their use as magenta colorants

for color toners

INVENTOR(S):
PATENT ASSIGNEE(S):

Matsuzaki, Yoriaki; Kogo, Osamu Mitsui Chemicals Inc., Japan Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 2002105347 A2 20020410 JP 2000-293971

2000 0927

PRIORITY APPLN. INFO.:

JP 2000-293971

2000 0927

OTHER SOURCE(S):

MARPAT 136:311211

GΙ

NC
$$N = N$$
 $N = N$
 N

AB The dyes are of I-type compds. (R1-4 = H, alkyl, 2H-benzotriazol-2-yl; R5, R6 = H, halogen, alkyl, alkoxy, aryl, carboxylate ester, carbonylamide, sulfamide, aminocarbonyl groups; R7, R8 = H, alkyl, aryl, alkenyl; R7 and R8 together can form a ring; X = linking groups). Thus, coupling a diazotized 2-aminoimidazole-4,5-dicarbonitrile with N-acetyl-N',N'-dioctyl-1,3-diaminobenzene gave an intermediate which (7.5 parts) was combined with N,N-dimethylimidazolidinone 38, K carbonate 3 and KBr 0.4, heated to 80°, mixed with 3,5-di-tert-butyl-4-hydroxybenzyl alc. monochloroacetate 6.8 parts for 1 h and working up gave a dye with λmax 522 nm and gram absorption coefficient 66400 mL/g·cm for toner use.

I

IT 410089-77-9P 410089-78-0P 410089-79-1P 410089-81-5P 410089-82-6P 410089-83-7P 410089-84-8P 410089-85-9P 410089-86-0P 410089-87-1P 410089-88-2P 410089-89-3P 410089-90-6P 410089-91-7P

(magenta colorant; azo dyes and use as magenta colorants for color toners)

RN 410089-77-9 HCAPLUS

CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2-[2-[[2-(acetylamino)-4-(dioctylamino)phenyl]azo]-4,5-dicyano-1H-imidazol-1-yl]ethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

RN 410089-78-0 HCAPLUS

CN Benzeneacetic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2-[2-[[2-(acetylamino)-4-(dioctylamino)phenyl]azo]-4,5-dicyano-1H-imidazol-1-yl]ethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

OH

RN 410089-79-1 HCAPLUS

CN Benzoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2-[2-[[2-(acetylamino)-4-(dioctylamino)phenyl]azo]-4,5-dicyano-1Himidazol-1-yl]ethyl ester (9CI) (CA INDEX NAME)

RN 410089-81-5 HCAPLUS

CN Benzenepropanoic acid, 3-(2H-benzotriazol-2-yl)-4-hydroxy-, 2-[4,5-dicyano-2-[[4-(dioctylamino)-2-[(ethylsulfonyl)amino]phenyl]azo]-1H-imidazol-1-yl]ethyl ester (9CI) (CA INDEX NAME)

RN 410089-82-6 HCAPLUS

CN Benzenepropanoic acid, 3-(2H-benzotriazol-2-yl)-4-hydroxy-, 2-[2-[[2-(acetylamino)-4-(dioctylamino)phenyl]azo]-4,5-dicyano-1H-imidazol-1-yl]ethyl ester (9CI) (CA INDEX NAME)

RN 410089-83-7 HCAPLUS

CN Benzenepropanoic acid, 3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxy-, 2-[2-[[2-(acetylamino)-4-(diethylamino)phenyl]azo]-4,5-dicyano-1H-imidazol-1-yl]ethyl ester (9CI) (CA INDEX NAME)

RN 410089-84-8 HCAPLUS

CN Benzenepropanoic acid, 3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxy-, 2-[2-[[2-(acetylamino)-4-(diethylamino)-5-methoxyphenyl]azo]-4,5-dicyano-1H-imidazol-1-yl]ethyl ester (9CI) (CA INDEX NAME)

RN 410089-85-9 HCAPLUS

CN Benzenepropanoic acid, 3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxy-, 2-[2-[[7-(acetylamino)-1-ethyl-1,2,3,4-tetrahydro-6-quinolinyl]azo]-4,5-dicyano-1H-imidazol-1-yl]ethyl ester (9CI) (CA INDEX NAME)

RN 410089-86-0 HCAPLUS

CN Benzenepropanoic acid, 3-(1,1-dimethylethyl)-4-hydroxy-5-methyl-, 2-[2-[[2-(acetylamino)-4-(dioctylamino)phenyl]azo]-4,5-dicyano-1H-imidazol-1-yl]ethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

RN 410089-87-1 HCAPLUS

CN Benzenepropanoic acid, 3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxy-, 2-[2-[[7-(acetylamino)-1-ethyl-1,2,3,4-tetrahydro-2,2,4-trimethyl-6-quinolinyl]azo]-4,5-dicyano-1H-imidazol-1-yl]ethyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{T-Bu} \\ \text{HO} \\ \text{N} \\ \text{N} \\ \text{N} \\ \text{CH}_2 - \text{CH}_2 - \text{C} - \text{O} - \text{CH}_2 - \text{CH}_2 - \text{N} \\ \text{N} \\ \text{N} \\ \text{O} \\ \\ \text{AcNH} \\ \text{Me} \\ \text{Et} \\ \end{array}$$

RN 410089-88-2 HCAPLUS

CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2-[2-[[7-(acetylamino)-1-ethyl-1,2,3,4-tetrahydro-2,2,4-trimethyl-6-quinolinyl]azo]-4,5-dicyano-1H-imidazol-1-yl]ethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

$$\begin{array}{c|c} \text{OH} & \text{Bu-t} \\ & \text{CH}_2 \\ & \text{CH}_2 \\ & \text{O} \\ & \text{C} \\ & \text{NC} \\ & \text{N} \\ & \text{M} \\ \\ & \text{M} \\ & \text{M} \\ \\ & \text{M} \\ & \text{M} \\ \\ & \text{M} \\ \\ & \text{M} \\ \\ & \text{$$

PAGE 2-A | Me

RN 410089-89-3 HCAPLUS
CN Benzenepropanoic acid, 3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxy-, 2-[2-[[2-(acetylamino)-4-(di-7-octenylamino)phenyl]azo]-4,5-dicyano-1H-imidazol-1-yl]ethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

H2C=CH-(CH2)6

N-(CH2)6-CH=

ACNH

N

CH2-CH2-CH2-CH2-N

N

NC

CN

PAGE 1-B

= CH₂

RN 410089-90-6 HCAPLUS

CN Benzenepropanoic acid, 3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxy-, 2-[2-[[2-(benzoylamino)-4-[bis[2-(acetyloxy)ethyl]amino]phenyl]azo]-4,5-dicyano-1H-imidazol-1-yl]ethyl ester (9CI) (CA INDEX NAME)

RN 410089-91-7 HCAPLUS

CN Benzenepropanoic acid, 3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxy-, 2-[2-[[2-(acetylamino)-4-[bis[2-(2-methoxyethoxy)ethyl]amino]phenyl]azo]-4,5-dicyano-1H-imidazol-1-yl]ethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

- CH $_2$ - CH $_2$ - OMe

CC

IC ICM C09B029-09

ICS C08K005-3445; C08L101-00; G03G009-09 41-3 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)

```
Section cross-reference(s): 74
IT
    77911-27-4P 410089-59-7P
                                 410089-60-0P
                                                410089-61-1P
                   410089-63-3P
    410089-62-2P
                                  410089-64-4P
                                                 410089-65-5P
    410089-66-6P
                   410089-67-7P
                                  410089-68-8P
                                                 410089-69-9P
    410089-70-2P
                   410089-71-3P
                                  410089-72-4P
                                                 410089-73-5P
    410089-74-6P
                  410089-75-7P
                                  410089-76-8P 410089-77-9P
    410089-78-0P 410089-79-1P 410089-80-4P
    410089-81-5P 410089-82-6P 410089-83-7P
    410089-84-8P 410089-85-9P 410089-86-0P
    410089-87-1P 410089-88-2P 410089-89-3P
    410089-90-6P 410089-91-7P
        (magenta colorant; azo dyes and use as magenta colorants for
       color toners)
```

L21 ANSWER 8 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:524704 HCAPLUS

DOCUMENT NUMBER: 135:114408

TITLE: Photoelectrochemical cell comprising polymer

electrolyte composition formed by polymerizing

ionic liquid crystal monomer

INVENTOR(S): Ono, Michio

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 43 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
				-
EP 1116769	A2	20010718	EP 2001-100999	
				2001
				0117
R: AT, BE, CH,	DE, DK	, ES, FR, GE	B, GR, IT, LI, LU, NI	, SE,
MC, PT, IE,	SI, LT	, LV, FI, RO	0	
JP 2001202995	A2	20010727	JP 2000-8054	
	,			2000
				0117
US 2002034690	A1	20020321	US 2001-759363	
				2001
				0116
US 6727023	B2	20040427		
PRIORITY APPLN. INFO.:			JP 2000-8054	Α
			21 2000 3031	2000
				0117
				011/

OTHER SOURCE(S): MARPAT 135:114408

Disclosed is an electrolyte composition comprising a polymer compound formed by polymerizing an ionic liquid crystal monomer containing at least one polymerizable group. Also disclosed are an electrochem. cell, a nonaq. secondary cell and a photoelectrochem. cell, each comprising the electrolyte composition. In accordance with the present invention, an electrolyte which does not substantially volatilize and exhibits excellent charge-transporting properties can be obtained, making it possible to obtain a photoelectrochem. cell having excellent photoelec. conversion properties and less deterioration of properties with time. Further, a lithium ion-conducting material having an extremely high ionic conductivity at

low temps. can be obtained.

IT 350507-50-5P

(in preparation of ionic liquid crystal monomer containing polymerizable group)

RN 350507-50-5 HCAPLUS

CN Undecanoic acid, 4-[3-[4-(1H-imidazol-1-yl)phenoxy]-3-oxo-1-propenyl]phenyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

IC ICM C09K019-00

ICS C09K019-38; H01G009-20

CC 74-1 (Radiation Chemistry, Photochemistry, and **Photographic** and Other Reprographic Processes)

Section cross-reference(s): 72

IT 42749-27-9P 42749-28-0P 85689-41-4P 118798-05-3P 136399-07-0P 139475-37-9P 155062-34-3P 188915-80-2P

261508-74-1P 307558-21-0P 350507-45-8P 350507-46-9P

350507-47-0P 350507-48-1P 350507-49-2P 350507-50-5P

(in preparation of ionic liquid crystal monomer containing polymerizable group)

L21 ANSWER 9 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 2001:62567 HCAPLUS

DOCUMENT NUMBER: 134:132600

TITLE: Radiation-curable resin compositions for

making color filters

INVENTOR(S):
Sakurai, Koichi; Watanabe, Takeshi

PATENT ASSIGNEE(S): JSR Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001021713	A2	20010126	JP 1999-189882	
				1999
				0705
PRIORITY APPLN. INFO.:			JP 1999-189882	
				1999
				0705

OTHER SOURCE(S): MARPAT 134:132600

The compns. comprise (A) colorants, (B) alkali-soluble resins, (C) polyfunctional monomers, (D) (meth)acrylate esters bearing imidazolyl groups, and (E) photoinitiators. Thus, mixing a C.I. Pigment Red 177/C.I. Pigment Red 224 65:35 mixture 100 with a benzyl methacrylate-glycerol monomethacrylate-methacrylic acid-N-phenylmaleimide-styrene copolymer 70, dipentaerythritol hexaacrylate 80, 2-(2'-methylimidazolyl)ethyl methacrylate 10, 2-benzyl-2-dimethylamino-1-(4-morpholinophenyl)-1-butanone 50 and propylene glycol monomethyl ether acetate 1000 parts, coating the resulting mixture on the surface of a soda glass, pre-baking, irradiating with UV light via a photomask, developing in a KOH solution, washing and post baking gave a color filter.

IT 321849-21-2, Benzyl methacrylate-dipentaerythritol hexaacrylate-glycerol monomethacrylate-2-(2'-methylimidazolyl)ethyl methacrylate-methacrylic acid-N-phenylmaleimide-styrene copolymer 321849-22-3, Benzyl methacrylate-dipentaerythritol hexaacrylate-2-(2-methyl-1-imidazolyl)ethyl methacrylate-methacrylic acid-styrene copolymer 321849-24-5 321849-25-6

(radiation-curable resin compns. for making color filters)

RN 321849-21-2 HCAPLUS

2-Propenoic acid, 2-methyl-, polymer with ethenylbenzene, 2-(2-methyl-1H-imidazol-1-yl)ethyl 2-methyl-2-propenoate, 2-[[3-[(1-oxo-2-propenyl)oxy]-2,2-bis[[(1-oxo-2-propenyl)oxy]methyl]propoxy]methyl]-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate, phenylmethyl 2-methyl-2-propenoate, 1-phenyl-1H-pyrrole-2,5-dione and 1,2,3-propanetriol mono(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM 1

CN

CRN 34375-24-1 CMF C10 H14 N2 O2

CM 2

CRN 29570-58-9 CMF C28 H34 O13

CM 3

CRN 2495-37-6 CMF C11 H12 O2

CM 4

CRN 941-69-5 CMF C10 H7 N O2

CM 5

CRN 100-42-5 CMF C8 H8

```
H_2C = CH - Ph
      CM
            6
      CRN
            79-41-4
      CMF
            C4 H6 O2
    CH2
Me^-C^-CO_2H
            7
      CM
      CRN
            50853-28-6
      CMF
            C7 H12 O4
      CCI
            IDS
            CM
                  8
            CRN
                 79-41-4
            CMF
                 C4 H6 O2
    CH<sub>2</sub>
{
m Me^-\,C^-\,CO_2H}
            CM
                  9
            CRN
                  56-81-5
            CMF
                 C3 H8 O3
          ОН
HO-CH_2-CH-CH_2-OH
RN
      321849-22-3 HCAPLUS
CN
      2-Propenoic acid, 2-methyl-, polymer with ethenylbenzene,
      2-(2-methyl-1H-imidazol-1-yl)ethyl 2-methyl-2-propenoate,
      2-[[3-[(1-oxo-2-propenyl)oxy]-2,2-bis[[(1-oxo-2-
     propenyl) oxy] methyl] propoxy] methyl] -2-[[(1-oxo-2-
     propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate and phenylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)
      CM
            1
```

CRN

34375-24-1 CMF C10 H14 N2 O2

CM 2

CRN 29570-58-9 CMF C28 H34 O13

CM 3

CRN 2495-37-6 CMF C11 H12 O2

CM 4

CRN 100-42-5 CMF C8 H8

 $H_2C = CH - Ph$

CM 5

CRN 79-41-4 CMF C4 H6 O2

$$^{\rm CH_2}_{||}_{\rm Me^-\,C^-\,CO_2H}$$

RN 321849-24-5 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with ethenylbenzene,
α-hydro-ω-[(1-oxo-2-propenyl) oxy] poly[oxy(1-oxo-1,6-hexanediyl)], 2-(2-methyl-1H-imidazol-1-yl) ethyl 2-propenoate,
2-[[3-[(1-oxo-2-propenyl) oxy]-2,2-bis[((1-oxo-2-propenyl) oxy]methyl]propoxy]methyl]-2-[[(1-oxo-2-propenyl) oxy]methyl]-1,3-propanediyl di-2-propenoate, phenylmethyl 2-methyl-2-propenoate, 1-phenyl-2H-pyrrole-2,5-dione and
1,2,3-propanetriol mono(2-methyl-2-propenoate), graft (9CI) (CA INDEX NAME)

CM 1

CRN 321849-23-4 CMF C9 H12 N2 O2

Me
$$\begin{array}{c|c}
N & O \\
N & O \\
\parallel & \parallel \\
CH_2-CH_2-O-C-CH \longrightarrow CH_2
\end{array}$$

CM 2

CRN 97387-29-6 CMF (C6 H10 O2)n C3 H4 O2 CCI PMS

CM 3

CRN 29570-58-9 CMF C28 H34 O13

CRN 2495-37-6 CMF C11 H12 O2

$$\begin{array}{c|c} ^{H_2C} & \text{O} \\ \parallel & \parallel \\ \text{Me-} & \text{C--} \text{C--} \text{O--} \text{CH}_2\text{--} \text{Ph} \end{array}$$

CM 5

CRN 941-69-5 CMF C10 H7 N O2

CM 6

CRN 100-42-5 CMF C8 H8

 $\mathtt{H}_2\mathtt{C} \underline{=\!=\!} \mathtt{C}\mathtt{H} \underline{-\!} \mathtt{P}\mathtt{h}$

CM 7

CRN 79-41-4 CMF C4 H6 O2

CRN 50853-28-6 CMF C7 H12 O4 CCI IDS

CM 9

CRN 79-41-4 CMF C4 H6 O2

$$\begin{array}{c} \text{CH}_2 \\ || \\ \text{Me-C-CO}_2 \text{H} \end{array}$$

CM 10

CRN 56-81-5 CMF C3 H8 O3

$$\begin{array}{c} \text{OH} \\ | \\ \text{HO-CH}_2\text{--CH-CH}_2\text{--OH} \end{array}$$

RN 321849-25-6 HCAPLUS CN 2-Propenoic acid, 2-1

2-Propenoic acid, 2-methyl-, polymer with ethenylbenzene, 2-(2-methyl-1H-imidazol-1-yl)ethyl 2-propenoate, 2-oxepanone, 2-[[3-[(1-oxo-2-propenyl)oxy]-2,2-bis[[(1-oxo-2-propenyl)oxy]methyl]propoxy]methyl]-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate, phenylmethyl 2-methyl-2-propenoate, 1-phenyl-1H-pyrrole-2,5-dione and 1,2,3-propanetriol mono(2-methyl-2-propenoate), graft (9CI) (CA INDEX NAME)

CM 1

CRN 321849-23-4 CMF C9 H12 N2 O2

CRN 29570-58-9 CMF C28 H34 O13

CM 3

CRN 2495-37-6 CMF C11 H12 O2

CM 4

CRN 941-69-5 CMF C10 H7 N O2

CM 5

CRN 502-44-3 CMF C6 H10 O2

```
CM 6
```

CRN 100-42-5 CMF C8 H8

$$H_2C = CH - Ph$$

CM 7

CRN 79-41-4 CMF C4 H6 O2

$$\begin{array}{c} \text{CH}_2 \\ || \\ \text{Me--C--CO}_2 \text{H} \end{array}$$

CM 8

CRN 50853-28-6 CMF C7 H12 O4 CCI IDS

CM 9

CRN 79-41-4 CMF C4 H6 O2

$$\begin{array}{c} \text{CH}_2 \\ || \\ \text{Me-C-CO}_2 \text{H} \end{array}$$

CM 10

CRN 56-81-5 CMF C3 H8 O3

$$\begin{array}{c} \text{OH} \\ | \\ \text{HO-} \text{ CH}_2\text{--} \text{ CH-} \text{ CH}_2\text{--} \text{ OH} \end{array}$$

IC ICM G02B005-20

ICS C08F002-48; C08F291-06; G03F007-004; G03F007-027; G03F007-032

CC 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 74, 76

IT 321849-21-2, Benzyl methacrylate-dipentaerythritol hexaacrylate-glycerol monomethacrylate-2-(2'-methylimidazolyl)ethyl methacrylate-methacrylic acid-N-phenylmaleimide-styrene copolymer 321849-22-3,

Benzyl methacrylate-dipentaerythritol hexaacrylate-2-(2-methyl-1imidazolyl) ethyl methacrylate-methacrylic acid-styrene copolymer 321849-24-5 321849-25-6

(radiation-curable resin compns. for making color filters)

L21 ANSWER 10 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:46045 HCAPLUS

DOCUMENT NUMBER: 134:123652

TITLE: Radiation-sensitive compositions giving

patterns with high hardness and color filters

using them

INVENTOR(S): Sakurai, Koichi; Watanabe, Takeshi

PATENT ASSIGNEE(S): JSR Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 21 pp.

CODEN: JKXXAF

DOCUMENT TYPE: LANGUAGE:

Patent Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001013313	A2	20010119	JP 1999-183052	
				1999
PRIORITY APPLN. INFO.:			JP 1999-183052	/ 0629 :
				/ 1999
				0629

AB The compns. contain (A) coloring agents, (B) alkali-soluble polymers containing copolymers of 1-[CH2:CR1CO2(CH2)n]-2-R2-imidazole (R1 = H. Me; R2 = H, C1-5 alkyl; n = 1-5) and other monomers, (C) polyfunctional monomers, and (D) photopolymn. initiators. color filters have pixels obtained from them. The filters are useful for liquid-crystal displays, image-pickup devices, etc. The compns. give pixels with high solvent resistance and good adhesion to substrates and light-shielding layers.

TT 320730-33-4, Benzyl methacrylate-2-hydroxyethyl methacrylate-methacrylic acid-1-(2-methacryloyloxyethyl)-2methylimidazole copolymer 320730-35-6, Benzyl methacrylate-methacrylic acid-1-(2-methacryloyloxyethyl)-2methylimidazole-N-phenylmaleimide-styrene copolymer (radiation-sensitive compns. giving solvent-resistant pixels for color filters)

RN320730-33-4 HCAPLUS

> 2-Propenoic acid, 2-methyl-, polymer with 2-hydroxyethyl 2-methyl-2-propenoate, 2-(2-methyl-1H-imidazol-1-yl)ethyl

2-methyl-2-propenoate and phenylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CN

CRN 34375-24-1 CMF C10 H14 N2 O2

$$\begin{array}{c|c} N & \text{Me} \\ \hline N & O & CH_2 \\ \hline CH_2-CH_2-O-C-C-Me \end{array}$$

CRN 2495-37-6 CMF C11 H12 O2

CM 3

CRN 868-77-9 CMF C6 H10 O3

$$^{\rm H_2C}_{\parallel \parallel \parallel}$$
 ме- C- C- O- CH2- CH2- ОН

CM 4

CRN 79-41-4 CMF C4 H6 O2

$$\begin{array}{c} \text{CH}_2 \\ || \\ \text{Me-- C-- CO}_2\text{H} \end{array}$$

RN 320730-35-6 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with ethenylbenzene,
2-(2-methyl-1H-imidazol-1-yl)ethyl 2-methyl-2-propenoate,
phenylmethyl 2-methyl-2-propenoate and 1-phenyl-1H-pyrrole-2,5dione (9CI) (CA INDEX NAME)

CM 1

CRN 34375-24-1 CMF C10 H14 N2 O2

Me O
$$CH_2$$
 CH2-CH2-O-C-C-Me

CRN 2495-37-6 CMF C11 H12 O2

$$\begin{array}{ccc} ^{\rm H_2C} & {\rm O} \\ & \parallel & \parallel \\ ^{\rm Me-} & {\rm C-C-O-CH_2-Ph} \end{array}$$

CM 3

CRN 941-69-5 CMF C10 H7 N O2

CM 4

CRN 100-42-5 CMF C8 H8

 $H_2C = CH - Ph$

CM 5

CRN 79-41-4 CMF C4 H6 O2

$$\begin{array}{c} \text{CH}_2 \\ || \\ \text{Me-C-CO}_2 \text{H} \end{array}$$

IC ICM G02B005-20 ICS G03F007-004; G03F007-027; G03F007-028; G03F007-033; G02F001-1335 CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 38, 73

ST radiation sensitive alkali soluble imidazole polymer; color filter radiation sensitive imidazole polymer; hardness imidazole polymer pattern color filter; solvent **resistance** imidazole polymer pattern color filter; liq crystal display filter imidazole polymer pattern

IT Liquid crystal displays

Optical filters

(radiation-sensitive compns. giving solvent-resistant pixels for color filters)

IT 67653-78-5P, Dipentaerythritol hexaacrylate homopolymer (radiation-sensitive compns. giving solvent-resistant pixels for color filters)

IT 320730-33-4, Benzyl methacrylate-2-hydroxyethyl methacrylate-methacrylic acid-1-(2-methacryloyloxyethyl)-2-methylimidazole copolymer 320730-35-6, Benzyl methacrylate-methacrylic acid-1-(2-methacryloyloxyethyl)-2-methylimidazole-N-phenylmaleimide-styrene copolymer 320730-38-9 (radiation-sensitive compns. giving solvent-resistant pixels for color filters)

L21 ANSWER 11 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2000:839116 HCAPLUS

DOCUMENT NUMBER:

134:18658

TITLE:

Azo colorant, colored fine particles and

dispersion for aqueous ink for ink jet

recording

INVENTOR(S):

Matsuzaki, Yoriaki; Oi, Ryu; Okuma, Tadashi;

Kohgo, Osamu

PATENT ASSIGNEE(S):

Mitsui Chemicals, Inc., Japan

SOURCE:

Eur. Pat. Appl., 27 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1055712	A2	20001129	EP 2000-304377	
				2000
BD 1055310	3.0	20020100		0524
EP 1055712	A3	20020109		
EP 1055712	B1	20050216		
R: AT, BE, CH,	DE, DK	, ES, FR, GB	B, GR, IT, LI, LU, NL,	SE,
MC, PT, IE,	SI, LT	, LV, FI, RO)	
JP 2001040235	A2	20010213	JP 2000-141110	
				2000
				0515
TW 554013	В	20030921	TW 2000-89110015	
				2000
				0524
CN 1281015	Α	20010124	CN 2000-120087	
				2000

PRIORITY APPLN. INFO.:

JP 1999-144970

0525

1999 0525

OTHER SOURCE(S): MARPAT 134:18658

AB Aqueous ink for ink jet recording contains ≥1 water-insol. coloring matter, H2O and a resin emulsion, the azo colorant is excellent in storage stability, H2O and light resistance and compatibility with the resin. A dispersion of polyester 100, MEK 150, THF 150, and colorant 10 parts was added to glycerin and water to form an ink for jet printing of dense (OD >1.1) images having water and lightfastness.

IT 310445-20-6 310445-21-7

(colorant; in aqueous ink for ink jet recording of images having water and lightfastness)

RN 310445-20-6 HCAPLUS

CN Benzamide, N-[5-(dibutylamino)-2-[[4,5-dicyano-1-[(1-oxopropoxy)methyl]-1H-imidazol-2-yl]azo]phenyl]- (9CI) (CA INDEX NAME)

RN 310445-21-7 HCAPLUS

CN Propanoic acid, 2-methyl-, [[4-[[4,5-dicyano-1-[(2-methyl-1oxopropoxy)methyl]-1H-imidazol-2-yl]azo]-3 [(methylsulfonyl)amino]phenyl]imino]di-2,1-ethanediyl ester (9CI)
 (CA INDEX NAME)

IC ICM C09D011-02

ICS C09D011-10; C09B029-09

CC 42-12 (Coatings, Inks, and Related Products)
Section cross-reference(s): 41

```
IT
    310445-05-7
                  310445-07-9
                                310445-09-1
                                             310445-10-4
    310445-11-5
                  310445-12-6
                                310445-13-7
                                             310445-14-8
    310445-15-9
                  310445-16-0
                                310445-17-1 310445-18-2
    310445-19-3 310445-20-6 310445-21-7
    310445-22-8
                  310445-23-9
                                310445-24-0
                                             310445-25-1
    310445-26-2
                  310445-27-3
                                310445-28-4
                                             310445-29-5
    310445-30-8
                  310445-31-9
                                310445-32-0
                                             310445-33-1
    310445-34-2
                  310445-35-3
                                310445-36-4
                                             310445-37-5
    310445-38-6 310445-39-7
                                310445-40-0
        (colorant; in aqueous ink for ink jet recording of images having
       water and lightfastness)
```

L21 ANSWER 12 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2000:817497 HCAPLUS

DOCUMENT NUMBER:

134:6950

TITLE:

Electrolytes, liquid crystalline compositions,

liquid crystalline compounds, liquid crystalline mixtures, batteries, and

photovoltaic cells

INVENTOR(S):

Ono, Michio

PATENT ASSIGNEE(S): SOURCE:

Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 41 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

2000 0229
2000
0223
· ,
2000
0301
1999 0301
1999 0303

OTHER SOURCE(S):

MARPAT 134:6950

GΙ

^{*} STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT

Claimed electrolytes comprise liquid crystalline compds. I [R111 is AB (substituted) alkyl, alkenyl; Z111 forms 5- or 6-membered aromatic ring cation with N; R121 is a substituent containing ≥1 ring and alkyl or alkenyl to give liquid crystalline property; X111- is an anion]. Claimed liquid crystalline compns. comprise pyridinium compds. II or imidazolium compds. III (R341, R351, R361, and R371 are H or substituents; R311 and R331 are alkyl or alkenyl; Y311 is 4- or 7-membered divalent ring; Q311 and Q321 are divalent group; n = 1-3). Claimed liquid crystalline compds. are represented as IV or V (Q111 is a divalent group; R141, R151, R161, R171 are H or substituent; R131 is alkyl or alkenyl; Y111 is divalent 4, 5, 6, 7-membered substituent; Q121 and Q131 are divalent group). Mixts. containing ≥2 IV and/or V are also claimed. Claimed electrolytes may comprise the above compds. Claimed batteries comprise the above electrolytes. The photovoltaic cells comprise charge-transfer layers containing the electrolytes and semiconductors responding to radiant rays. The semiconductors may be sensitized with dyes. The electrolytes provide good charge transportation and low volatilization and resulting solar cells have high conversion efficiency and durability.

IT 307558-23-2P

(preparation and reaction of; in preparation of liquid crystalline electrolytes

for solar cells)

RN 307558-23-2 HCAPLUS

CN 2-Propenoic acid, 3-[4-(decyloxy)phenyl]-, 4-(1H-imidazol-1yl)phenyl ester, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

IC ICM C07D213-56

ICS C07D213-30; C07D213-68; C07D233-60; C09K019-34; G02F001-13; H01L031-04; H01M010-40; H01M014-00

CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
 Section cross-reference(s): 74

IT 4372-29-6P 77251-82-2P 139475-37-9P 202813-37-4P 208103-37-1P 307558-21-0P 307558-22-1P 307558-23-2P

(preparation and reaction of; in preparation of liquid crystalline electrolytes

for solar cells)

L21 ANSWER 13 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1996:301109 HCAPLUS

DOCUMENT NUMBER:

124:346021

TITLE:

Dyes for wool, polyamide fibers and leather, having a reactive carboxylic anhydride group

INVENTOR(S):

De Moura, Joao Carlos Vidaurre Pais; De Oliviera-Campos, Ana Maria Ferreira; Maia, Hernani Lopes Da Silva; Hrdina, Radim

PATENT ASSIGNEE(S):

Gomes, Jaime Isidoro Naylor Rocha, Port.

SOURCE: Eur. Pat. Appl., 13 pp.

CODEN: EPXXDW

DOCUMENT TYPE: LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	ENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP	700973	A1	19960313	EP 1995-670003	
					1995
					0413
	R: BE, CH, DE,	GB, IT	, LI, PT		
PRIORITY	APPLN. INFO.:		,	PT 1994-101492 A	
					1994
					0415

OTHER SOURCE(S):

MARPAT 124:346021

GΙ

$$\begin{array}{c|c}
 & CO_2R \\
\hline
 & N = N \\
\hline
 & NC \\
\hline
 & I
\end{array}$$

AB The dyes, mainly for wool and polyamide fibers and polyester-wool blends, but also suitable for silk and leather, contain a reactive group of the mixed anhydride type -CO2CO2R [R = C1-6 (halo)alkyl, (un) substituted Ph, (un) substituted PhCH2], which reacts covalently with proteinaceous and polyamide fibers, thus ensuring a high washfastness to alkaline conditions. In their insol. form, the dyes which are devoid of sulfo groups are absorbed by wool only above 70°, showing high migration at this temperature, thus giving more uniform dyeings than when other reactive dyes are used. In their soluble form, dyes containing sulfo groups show a good performance, namely high washfastness on polyamide dyeings. Thus, a DMF solution of I (R = H) was treated with ClCO2Et in the presence of Et3N to give orange I (R = CO2Et).

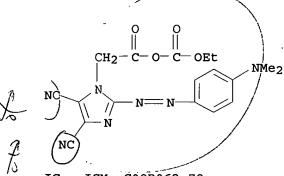
IT 176542-98-6P

> (red; reactive dyes having a carboxylic anhydride group for wool and polyamide fibers and leather)

RN176542-98-6 HCAPLUS

CN 1H-Imidazole-1-acetic acid, 4,5-dicyano-2-[[4-

(dimethylamino)phenyl]azo]-, anhydride with ethyl hydrogen carbonate (9CI) (CA INDEX NAME)



IC ICM C09B062-78

CC 41-3 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)

IT 176542-93-1P 176542-98-6P

> (red; reactive dyes having a carboxylic anhydride group for wool and polyamide fibers and leather)

L21 ANSWER 14 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1993:125868 HCAPLUS

DOCUMENT NUMBER:

118:125868

TITLE:

Photopolymerizable 2-alkyl-1-(2-

methacryloyloxyethyl)imidazoles as

crosslinking catalysts for epoxy resins

INVENTOR (S):

Yoshioka, Takashi; Murai, Takayuki

PATENT ASSIGNEE(S):

Shikoku Chemicals Corp., Japan Jpn. Kokai Tokkyo Koho, 3 pp.

SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE:

Patent LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 04308578	A2	19921030	JP 1991-102083	
					1991
					0405
PRIO	RITY APPLN. INFO.:			JP 1991-102083	
					1991
					0405
1110	WIII MIDA. INIO			31 1931 102003	

The title imidazoles are useful for curing epoxy resins, giving AB photocurable products for use as resists. Reacting methacryloyl chloride with 1-(2-hydroxyethyl)-2-undecylimidazole in THF containing Et3N and phenothiazine gave 1-(2methacryloyloxyethyl) -2-undecylimidazole.

IT 34375-24-1P 62037-81-4P 146490-90-6P

(preparation of, as epoxy resin hardener and photoresist)

34375-24-1 HCAPLUS RN

CN 2-Propenoic acid, 2-methyl-, 2-(2-methyl-1H-imidazol-1-yl)ethyl ester (9CI) (CA INDEX NAME)

RN 62037-81-4 HCAPLUS

RN 146490-90-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(2-undecyl-1H-imidazol-1-yl)ethyl ester (9CI) (CA INDEX NAME)

IC ICM C07D233-60

ICS C08G059-40

CC 37-6 (Plastics Manufacture and Processing)

Section cross-reference(s): 35, 74

ST methacryloyloxyethylimidazole curing epoxy photoresist;
resist photo methacryloyloxyethylimidazole epoxy;
imidazole methacryloyloxyethyl curing epoxy photoresist;
crosslinking methacryloyloxyethylimidazole epoxy
photoresist; photocuring methacryloyloxyethylimidazole
epoxy resin

IT Crosslinking

((methacryloyloxyethyl)imidazole-cured epoxy resins for, as photoresists)

IT Crosslinking agents

Crosslinking catalysts

((methacryloyloxyethyl)imidazoles, for epoxy resins, for photoresists)

IT Epoxy resins, miscellaneous

(curing agents for, (methacryloyloxyethyl) imidazoles as, for photoresists)

IT Resists

(photo-, (methacryloyloxyethyl)imidazole-cured epoxy resins
for)

IT 34375-24-1P 62037-81-4P 146490-90-6P

(preparation of, as epoxy resin hardener and photoresist)

L21 ANSWER 15 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1990:523910 HCAPLUS

DOCUMENT NUMBER:

113:123910

TITLE:

Electrophotographic preparation of lithographic plate using organic

photoconductor

INVENTOR(S):

Kato, Eiichi; Ishii, Kazuo

PATENT ASSIGNEE(S): SOURCE:

Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 25 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02039058	A2	19900208	JP 1988-186917	
	,			1988
				0728
JP 2640127	B2	19970813		•
PRIORITY APPLN. INFO.:			JP 1988-186917	
				1988
				0728

AB In the title photoconductor having on an elec. conductive support a photoconductive layer containing at least a photoconductive compound and a binder resin for use to prepare a lithog. plate by imagewise exposure, development to form toner images, and removing the nonimage area of the photoconductive layer, the binder resin of the photoconductive layer contains a copolymer having ≥1 monomer component containing ≥1 functional group which forms ≥1 CO2H group by decomposition

IT 129022-45-3

(electrophotog. photoconductors containing, for lithog. plate preparation)

RN 129022-45-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with

3-(2-butyl-1H-imidazol-1-yl)-3-oxopropyl 2-methyl-2-propenoate and

2-carboxyethyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 129022-44-2 CMF C14 H20 N2 O3

CRN 24615-84-7 CMF C6 H8 O4

$$\begin{array}{c} {\rm O} \\ || \\ {\rm HO_2C-CH_2-CH_2-o-C-CH} \end{array}$$

CM 3

CRN 97-88-1 CMF C8 H14 O2

IC ICM G03G013-28

ICS B41N001-14; G03G005-05

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT 1679-98-7 82532-74-9 82532-76-1 100235-24-3 129022-28-2 129022-29-3 129022-30-6 129022-31-7 129022-32-8 129022-34-0 129022-36-2 129022-37-3 129022-38-4

129022-39-5 129022-41-9 129022-42-0 129022-43-1

129022-45-3 129022-46-4 129045-59-6

(electrophotog. photoconductors containing, for lithog. plate preparation)

L21 ANSWER 16 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1990:506468 HCAPLUS

DOCUMENT NUMBER: 113:106468

TITLE: Electrophotographic material for lithographic

plate preparation

INVENTOR(S):
Kato, Eiichi; Ishii, Kazuo

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01284861	A2	19891116	JP 1988-113458	
				1988
				0512
PRIORITY APPLN. INFO.:			JP 1988-113458	
				1988
				0512

AB In the title material made by forming on an elec. conductive support ≥1 photoconductive layer and a surface layer, the surface layer comprises mainly a polymer containing a copolymg. component containing ≥1 functional group which produces ≥1 CO2H upon decomposition and a crosslinking agent.

IT 128887-96-7

(electrophotog. material with surface layer containing, for lithog. plate preparation)

RN 128887-96-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 6-hydroxyhexyl ester, polymer with 3-(2-butyl-1H-imidazol-1-yl)-3-oxopropyl 2-propenoate, 1,6-diisocyanatohexane and propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 124246-87-3 CMF C13 H18 N2 O3

$$\begin{array}{c|c}
C & CH_2 - CH_2 - CH_2 - CH_2 - CH_2 \\
N & Bu-n
\end{array}$$

CM 2

CRN 13092-57-4 CMF C10 H18 O3

$$$^{\circ}$$$
 CH2 $$^{\circ}$$ HO- (CH2) $_{6}-$ O- C- C- Me

CM 3

CRN 2210-28-8 CMF C7 H12 O2

$$\begin{array}{c|c} ^{H_2C} & \text{O} \\ & || & || \\ \text{Me-} & \text{C-} & \text{C-} & \text{OPr-n} \end{array}$$

CM 4

CRN 822-06-0 CMF C8 H12 N2 O2

```
OCN-(CH<sub>2</sub>)<sub>6</sub>-NCO
```

IC ICM G03G005-14

129027-50-5

ICS B41N001-14; G03G013-28

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

129027-51-6

IT 128887-91-2 128887-92-3 128887-93-4 128887-94-5 128887-95-6 **128887-96-7** 128887-97-8 128887-98-9 128887-99-0 128888-00-6 128888-01-7 128888-02-8 128888-03-9 128888-04-0 128977-37-7 128997-13-7 128997-14-8 128997-15-9 128997-16-0 128997-17-1

(electrophotog. material with surface layer containing, for lithog. plate preparation)

129027-53-8

129027-52-7

L21 ANSWER 17 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1990:432026 HCAPLUS

DOCUMENT NUMBER: 113:32026

TITLE: Blanks for electrophotographic lithographic

plates

INVENTOR(S): Kato, Eiichi; Ishii, Kazuo

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01283572	A2	19891115	JP 1988-112607	
				1988
				0511
PRIORITY APPLN. INFO.:			JP 1988-112607	
				1988
				0511

- AB The title blanks comprise an elec. conductive substrate, ≥1 photoconductor layer, and a surface layer, which contains ≥1 partially crosslinked resin containing ≥1 functional group capable of forming ≥1 COOH by decomposition
- IT 124238-86-4

(surface layer from, for electrophotog. lithog. plate)

RN 124238-86-4 HCAPLUS

CN 2-Butenoic acid, 2-[(ethenylsulfonyl)amino]ethyl ester, polymer ethyl 2-methyl-2-propenoate and 7-(1H-imidazol-1-yl)-7-oxoheptyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 124238-85-3 CMF C8 H13 N O4 S

$$H_2C = CH - S - NH - CH_2 - CH_2 - O - C - CH = CH - Me$$

CRN 124238-84-2 CMF C14 H20 N2 O3

CM 3

CRN 97-63-2 CMF C6 H10 O2

IC ICM G03G005-14

ICS B41N001-14; G03G013-28

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT 119359-85-2 124221-59-6 124221-66-5 124238-71-7 124238-75-1 124238-77-3 124238-78-4 124238-80-8 124238-83-1 **124238-86-4** 124261-86-5 124261-87-6 124261-88-7 127769-71-5 127769-72-6 127769-73-7 127769-75-9 127769-76-0 127769-77-1 127769-78-2 (surface layer from, for electrophotog. lithog. plate)

L21 ANSWER 18 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1990:66789 HCAPLUS

DOCUMENT NUMBER:

112:66789

TITLE:

Electrophotographic material for lithographic

plate preparation

INVENTOR(S):

Kato, Eiichi; Ishii, Kazuo

PATENT ASSIGNEE(S):

Fuji Photo Film Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 42 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

': 1

PATENT INFORMATION:

PAT	TENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP	326169	A2	19890802	EP 1989-101477	1989
ED.	226162	3.2	10010702		0127
	326169 326169 R: DE, GB	A3 B1	19910703 19940420		
JP	01191860	A2	19890801	JP 1988-15847	1988
.то	08020778	B4	19960304		0128
	01197765	A2	19890809	JP 1988-21354	1988
,тр	08020779	B4	19960304		0202
	4960661	A	19901002	US 1989-303220	1989
PRIORITY	Y APPLN. INFO.:			JP 1988-15847 A	0130
					1988 0128
				JP 1988-21354 A	
		-			1988 0202

GI

An electrophotog, material for the preparation of a lithog, plate AB comprises a conductive support having provided thereon ≥1 photoconductive layer containing photoconductive ZnO and a resin binder which comprises ≥1 resin containing ≥1 functional group capable of forming ≥1 carboxyl group upon decomposition and a heat-curable resin and/or a photocurable resin and a crosslinking agent. The carboxyl-forming functional group contained in the resin is represented by the formula CO2L where L = (CR1R2)m(X)nZ, MR3R4R5, N = CHQ1, COQ2, NHOH, I, or II (R1, R2 =H or an aliphatic hydrocarbon group; X = an aromatic hydrocarbon group; Z = H, halogen, trihalomethyl, alkyl, CN, NO2, SO2R9 where R9 = a hydrocarbon group, CO2R10 where R10 = a hydrocarbon group, or OR11 where R11 = a hydrocarbon group; m, n = 0,1, or 2; R3, R4, R5 = a hydrocarbon group or OR12 where R12 = a hydrocarbon group; M = Si, Sn, or Ti; Q1, Q2 = a hydrocarbon group; Y1 = 0 or S; R6,R7,R8 = H or an aliphatic hydrocarbon group; p = 3 or 4; Y2 = an organic residual group forming a cyclic imido group). The electrophotog. material is not influenced by a variation of environmental conditions of

electrophotog. processing, exhibits excellent preservability before processing, and produces a lithog. plate exhibiting satisfactory hydrophilic properties on the nonimage areas and excellent printing durability.

IT 124246-88-4

(zinc oxide electrophotog. material containing photocurable or heat-curable resin and, for lithog. plate preparation)

RN 124246-88-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 3-(2-butyl-1H-imidazol-1-yl)-3-oxopropyl 2-propenoate and 6-hydroxyhexyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 124246-87-3 CMF C13 H18 N2 O3

$$\begin{array}{c|c}
O & O \\
C - CH_2 - CH_2 - O - C - CH = CH_2
\end{array}$$

$$\begin{array}{c|c}
N & Bu-n \\
\end{array}$$

CM 2

CRN 13092-57-4 CMF C10 H18 O3

$$\begin{array}{c|c} & {\rm O} & {\rm CH_2} \\ & || & || \\ {\rm HO-} & ({\rm CH_2})_{\, 6} - {\rm O-} \, {\rm C-} \, {\rm C-} \, {\rm Me} \end{array}$$

CM 3

CRN 97-88-1 CMF C8 H14 O2

$$\begin{array}{c|c} \text{O} & \text{CH}_2 \\ \parallel & \parallel \\ \text{n-BuO-C-C-Me} \end{array}$$

IC ICM G03G013-28 ICS G03G005-05

CC 74-6 (Radiation Chemistry, Photochemistry, and

Photographic and Other Reprographic Processes) IT 124246-74-8 124246-75-9 124246-76-0 124246-78-2 124246-79-3 124246-80-6 124246-82-8 124246-84-0 124246-90-8 124246-92-0 124246-86-2 **124246-88-4** 124246-93-1 124246-96-4 124274-35-7 124274-37-9

USHA SHRESTHA EIC 1700 REM 4B28

124296-08-8 124296-11-3 124296-12-4 124296-14-6 124296-16-8 124296-17-9 124296-18-0 124296-20-4 124296-21-5 124296-23-7 124296-25-9 124296-26-0 124296-29-3 124296-28-2 124296-30-6 124296-32-8 124296-34-0

(zinc oxide electrophotog. material containing photocurable or heat-curable resin and, for lithog. plate preparation)

L21 ANSWER 19 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1990:14314 HCAPLUS

DOCUMENT NUMBER: 112:14314

TITLE: Electrophotographic material for lithographic

plate preparation

INVENTOR(S): Kato, Eiichi; Ishii, Kazuo

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 35 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 326132	A2	19890802	EP 1989-101348	
				1989
				0126
EP 326132	A3	19910703		
R: DE, GB		13310,03		
JP 01191157	A2	19890801	JP 1988-14576	
OF UTIDITY	A2	17070001	UF 1900-14576	1988
				0127
JP 2640109	B2	19970813		
US 5017448	Α	19910521	US 1989-302300	
				1989
				0127
PRIORITY APPLN. INFO.:			JP 1988-14576 A	
				1988
				0127

GI

AB The title material comprises a conductive support having provided thereon ≥1 photoconductive layer containing ZnO and a resin binder which comprises ≥1 resin which contains ≥1 functional group capable of producing ≥1 CO2H group through decomposition and is crosslinked at least in part. The functional group of the resin has the formula CO2L where L = (CR1R2)m(X)nZ,

MR3R4R5, N = CHQ1, COQ2, NHOH, I, or II (R1, R2 = H or an aliphatic group; X = an aromatic group; Z = H, halogen, trihalomethyl, alkyl, CN, NO2, SO2R9 where R9 = a hydrocarbon group, CO2R10 where R10 = a hydrocarbon group, or OR11 where R11 = a hydrocarbon group; m, n = 0, 1, 2; R3, R4, R5 = a hydrocarbon group or OR12 where R12 = a hydrocarbon group; M = Si, Sn, or Ti; Q1, Q2 = a hydrocarbon group; Y1 = O or Si R6, R7, R8 = H, a hydrocarbon group, or OR13 where R13 = a hydrocarbon group; p = 3 or 4; Y2 = an organic residue to complete a cyclic imido group; the above-described hydrocarbon group means an aliphatic group including a chain, cyclic alkyl, alkenyl, or aralkyl or an aromatic group including Ph or naphthyl). The electrophotog. material reproduces images faithful to the original and provides a lithog. plate which does not generate background stains owing to strong affinity of the nonimage areas for water.

IT 124238-86-4

(electrophotog. material containing zinc oxide and, for lithog. plate preparation)

RN 124238-86-4 HCAPLUS

2-Butenoic acid, 2-[(ethenylsulfonyl)amino]ethyl ester, polymer ethyl 2-methyl-2-propenoate and 7-(1H-imidazol-1-yl)-7-oxoheptyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CN

CRN 124238-85-3 CMF C8 H13 N O4 S

$$\begin{array}{c} {\rm H_2C} = {\rm CH} - {\rm S-NH-CH_2-CH_2-O-C-CH} = {\rm CH-Me} \\ || \\ || \\ || \\ || \\ || \end{array}$$

CM 2

CRN 124238-84-2 CMF C14 H20 N2 O3

$$\begin{array}{c|c} & & & & & & & \\ & & & & & & & \\ & & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & \\ & & \\ & \\ & & \\ & \\ & \\ & & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\$$

CM 3

CRN 97-63-2 CMF C6 H10 O2

IC ICM G03G013-28 ICS G03G005-05

CC 74-6 (Radiation Chemistry, Photochemistry, and

Photographic and Other Reprographic Processes)
IT 25719-55-5 124191-37-3 124221-59-6 124221-60-9 124221-61-0

124221-63-2 124221-65-4 124221-66-5 124221-68-7 124238-71-7 124238-73-9 124238-75-1 124238-77-3 124238-78-4 124238-80-8 124238-83-1 **124238-86-4** 124261-86-5 124261-87-6 124261-88-7

(electrophotog. material containing zinc oxide and, for lithog. plate preparation)

L21 ANSWER 20 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1989:125340 HCAPLUS

DOCUMENT NUMBER: 110:125340

TITLE: Electrophotographic lithographic printing

plate precursor

INVENTOR(S): Kato, Eiichi; Ishii, Kazuo

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 35 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
EP 284748	A2	19881005	EP 1988-102036		
					1988
EP 284748	А3	19900124			0211
EP 284748	B1	19931222			
R: DE, GB	3.0	10000016	TD 1005 00045		
JP 63197964	A2	19880816	JP 1987-28345		
					1987
					0212
JP 01070769	A2	19890316	JP 1987-226694		
					1987
					0911
PRIORITY APPLN. INFO.:			JP 1987-28345	Α	
					1987
					0212
			JP 1987-226694	А	
			: 		1987
					0911
					0311

AB An electrophotog. lithog. printing plate precursor giving a printing plate having excellent printing durability comprises a conductive support with ≥1 photoconductive layer and an outermost surface layer containing ≥1 resin having ≥1 functional group capable of forming a carboxyl group upon decomposition

The surface layer can be rendered highly hydrophilic while exhibiting water resistance when subjected to oil-desensitization processing after toner image formation. Thus, a composite electrophotog. plate with a charge-generating layer containing a bisazo pigment and a charge-transporting layer containing a hydrazone was overcoated with a Et methacrylate-tert-butyldimethylsilyl methacrylate copolymer in PhMe, dried, exposed, and processed in an ELP-T automatic platemaking machine to give a plate capable of producing 10,000 prints with clear images and no fog in the nonimage areas.

IT 119359-98-7

(electrophotog. lithog. plate precursor with surface layer containing)

RN 119359-98-7 HCAPLUS

2-Propenoic acid, 2-methyl-, butyl ester, polymer with 3-(2-methyl-1H-imidazol-1-yl)-3-oxopropyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CN

CRN 119359-97-6 CMF C10 H12 N2 O3

Me
$$\begin{array}{c|c}
C - CH_2 - CH_2 - O - C - CH \longrightarrow CH_2 \\
\parallel & \parallel & \parallel \\
O & O & O
\end{array}$$

CM 2

CRN 97-88-1 CMF C8 H14 O2

$$\begin{array}{c|c} & \text{O} & \text{CH}_2 \\ & || & || \\ \text{n-BuO-C-C-Me} \end{array}$$

IC ICM G03G013-28

CC 74-3 (Radiation Chemistry, Photochemistry, and **Photographic** and Other Reprographic Processes)

IT 113880-92-5 119212-13-4 119212-15-6 119212-16-7 119212-18-9 119212-20-3 119359-80-7 119359-82-9 119359-84-1 119359-85-2 119359-87-4 119359-89-6 119359-96-5 119359-98-7 119360-00-8 119380-12-0

L21 ANSWER 21 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1986:216421 HCAPLUS

DOCUMENT NUMBER:

104:216421
Photographic recording material for

silver-dye-bleach process

INVENTOR(S): Tschopp, Paul

PATENT ASSIGNEE(S): Ciba-Geigy A.-G. , Switz. SOURCE: Eur. Pat. Appl., 40 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 169813	A2	19860129	EP 1985-810334	1985
EP 169813	B1			0722
R: BE, CH, DE, US 4661437	•			1985
JP 61143753	A2	19860701	JP 1985-165033	0719 1985 0727
US 4743683	Α	19880510	US 1986-938986	1986 1203
PRIORITY APPLN. INFO.:			CH 1984-3659 A	1984 0727
			US 1985-757550 A3	1985 0719

GI For diagram(s), see printed CA Issue.

AΒ Ag-dye-bleach materials having good color reproduction and giving brilliant colors having outstanding lightfastness contain ≥1 oil-soluble azo dye (I; R = H, alkyl, alkoxy, Ph, alkylthio, CN, NO2, or halogen; R1 = H, alkyl, OH, or acylamino; R2 = H or alkoxy; R3 = H or an optionally substituted NH2; A = a 5-membered ring containing $\geq N$; n = 0-3). Thus, an opaque triacetate support was coated with a gelatin-Aq(Br,I) emulsion, prepared by mixing 2.5 mL of a dispersion of II 13.2 mg, a 9:1 EtOAc-tricresyl phosphate mixture 2, 6% aqueous gelatin 6.6, distilled water 0.9, and 8% aqueous Na dibutylnaphthalenesulfonate 0.5 mL with water 5, gelatin-Ag(Br,I) emulsion 1.5, 4% aqueous gelatin 1, and a 1% hardener solution 1 mL, dried, step wedge-exposed, and processed to give a brilliant, lightfast, purple wedge which showed a d. decrease of 0% after a light exposure of 21 kJ/cm2. IT

102300-28-7P

(preparation and silver-dye-bleach color photog. applications of)

RN 102300-28-7 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, [4,5-dicyano-2-[[5-methoxy-4-[(2methoxy-1-methylethyl) amino] -2-[(3-methyl-1oxobutyl)amino]phenyl]azo]-1H-imidazol-1-yl]methyl ester (9CI) (CA INDEX NAME)

IC ICM G03C005-52 ICS C09B029-036

ICA C09B029-039

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes) Section cross-reference(s): 41

58104-38-4P 94960-34-6P 102300-27-6P 102300-28-7P IT 102300-29-8P 102300-30-1P 102300-31-2P 102300-32-3P 102300-33-4P 102300-34-5P 102300-35-6P 102300-36-7P 102300-37-8P 102300-38-9P 102300-39-0P 102300-40-3P 102300-41-4P 102300-42-5P 102300-43-6P 102300-44-7P 102300-45-8P 102300-46-9P 102300-47-0P 102300-48-1P 102300-49-2P 102300-50-5P 102300-51-6P 102300-52-7P 102300-53-8P 102300-54-9P 102300-55-0P 102300-56-1P 102300-57-2P 102300-58-3P 102300-59-4P 102300-60-7P 102300-61-8P 102300-62-9P 102300-63-0P 102300-64-1P 102300-66-3P 102300-65-2P 102300-67-4P 102300-68-5P 102300-69-6P 102300-70-9P 102300-71-0P 102300-72-1P 102300-73-2P 102300-74-3P 102325-59-7P

(preparation and silver-dye-bleach color photog. applications of)

L21 ANSWER 22 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1984:532449 HCAPLUS

DOCUMENT NUMBER: 101:132449

TITLE: Imidazolyl substituted addition polymers
AUTHOR(S): Wagner, H. M.; Leyshon, L. J.; Pich, J., Mrs.

CORPORATE SOURCE: Kodak Ltd., UK

SOURCE: Research Disclosure (1984), 243, 327-30 (No.

24315)

CODEN: RSDSBB; ISSN: 0374-4353

DOCUMENT TYPE: Journal; Patent

LANGUAGE:

English

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

RD 243015 19840710

PRIORITY APPLN. INFO.: RD 1984-243015

19840710

AB Polymers useful as mordants for photog. anionic image dyes comprise addnl. copolymers having an imidazoyl group attached directly or indirectly to the polymer backbone by one of its ring N and a proportion of the other ring N preferably being quaternized. Thus, a mixture of N-(methacryloyloxyethyl)imidazole 40, Me methacrylate 20, and AIBN 0.32 g in 300 mL EtOH was heated at 75° for 20 h to give a copolymer having log viscosity

(1% in 3:1 EtOH-Me2CO at 25°) 22 mL/g. A mixture of 9.6 g above-prepared copolymer and 0.60 g PhCH2Cl was heated at 80° for 18 h to give 5% quaternized copolymer having log viscosity 43 mL/g.

IT 92213-12-2DP, quaternized 92213-13-3DP,
quaternized

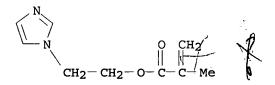
(preparation of, for photog. dyes)

RN 92213-12-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(1H-imidazol-1-yl)ethyl ester, polymer with methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 62037-81-4 CMF C9 H12 N2 O2



CM 2

CRN 80-62-6 CMF C5 H8 O2

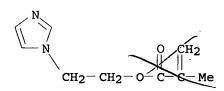
$$\begin{array}{c|c} H_2C & O \\ || & || \\ Me-C-C-OMe \end{array}$$

RN 92213-13-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(1H-imidazol-1-yl)ethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 62037-81-4 CMF C9 H12 N2 O2



CC 41-11 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)

IT 61386-49-0DP, quaternized 92213-12-2DP, quaternized 92213-13-3DP, quaternized (preparation of, for photog. dyes)

L21 ANSWER 23 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

1983:199822 HCAPLUS ACCESSION NUMBER:

98:199822 DOCUMENT NUMBER:

Cyanoimidazole disazo disperse dyes TITLE:

PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Co., Ltd.,

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-			
			•	
JP 57179248	A2	19821104	JP 1981-65057	
				1981
				0428
PRIORITY APPLN. INFO.:	:		JP 1981-65057	
				1981
				0428

GΙ

AB Cyanoimidazole disazo dyes were prepared and used for dyeing polyester fibers in fast red to navy blue shades. For example, aniline [62-53-3] was diazotized and coupled with 5-amino-4-cyanoimidazole [5098-11-3] to give 5-amino-4-cyano-2-(phenylazo) imidazole [85449-54-3] which was then diazotized, coupled with N-(2-cyanoethyl)-N-ethyl-m-toludine [148-69-6], and methylated with di-Me sulfate [77-78-1] to give I [85449-55-4], red on polyester fiber.

Ι

IT 85449-02-1

(dye, for polyester fibers, manufacture of)

RN85449-02-1 HCAPLUS

CN 1H-Imidazole-4-carbonitrile, 1-[2-(acetyloxy)ethyl]-5-[[4-[ethyl(2phenoxyethyl)amino]phenyl]azo]-2-(phenylazo)- (9CI) (CA INDEX NAME)

```
IC
     C09B031-043; C09B043-11
CC
     41-3 (Dyes, Organic Pigments, Fluorescent Brighteners, and
     Photographic Sensitizers)
IT
     85448-93-7
                  85448-94-8
                                85448-95-9
                                             85448-96-0
                                                           85448-97-1
     85448-98-2
                  85448-99-3
                                85449-00-9
                                             85449-01-0
     85449-02-1
                  85449-03-2
                                85449-04-3
                                             85449-05-4
                                85449-08-7
                                                           85449-10-1
     85449-06-5
                  85449-07-6
                                              85449-09-8
     85449-11-2
                  85449-12-3
                                85449-13-4
                                             85449-14-5
                                                           85449-15-6
     85449-16-7
                  85449-17-8
                                85449-18-9
                                             85449-19-0
                                                           85449-20-3
     85449-21-4
                  85449-22-5
                                85449-23-6
                                             85449-24-7
                                                           85449-25-8
     85449-26-9
                  85449-27-0
                                85449-28-1
                                             85449-29-2
                                                           85449-30-5
     85449-31-6
                  85449-32-7
                                85449-33-8
                                             85449-34-9
                                                           85449-35-0
     85449-36-1
                  85449-37-2
                                85449-38-3
                                             85449-39-4
                                                           85449-40-7
     85449-41-8
                  85449-42-9
                                85449-43-0
                                             85449-44-1
                                                           85449-45-2
     85449-46-3
                                85449-48-5
                                             85449-49-6
                                                           85449-50-9
                  85449-47-4
     85449-51-0
                  85449-52-1
                                85449-53-2
                                             85449-55-4
                                                           85458-39-5
        (dye, for polyester fibers, manufacture of)
```